

# SHAUNAK SUNIL DEO

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## EDUCATION

**Syracuse University**, Syracuse, New York.

Aug 2022 – May 2024

*Master of Science in Computer Science.*

GPA: 3.8/4

Relevant Coursework: Database Management Systems, Social Media and Data Mining, Operating Systems, Structured Programming and Formal Methods, Computer Architecture and Android Programming.

**Vishwakarma Institute of Technology**, Pune, India.

Aug 2018 – Jun 2022

*Bachelor of Technology in Computer Engineering.*

GPA: 3.6/4

Relevant coursework: Data Science, Artificial Intelligence, Design and Analysis of Algorithms, Automated Software Engineering, Computer Networks, Data Structures and Algorithms, Automata Theory, Statistics and Linear Algebra.

## TECHNICAL SKILLS

- Programming: Python, Java, Kotlin, C++, C, JavaScript, Haskell, Bash.
- Web Development: React, HTML, CSS, Bootstrap, Json, XML, NodeJS, PHP, Express.js, Flask, Django.
- Databases: SQL, MongoDB, PostgreSQL, Firebase.
- Libraries and Frameworks: NumPy, Pandas, Matplotlib, Seaborn, scikit-learn, TensorFlow, OpenCV, Tableau.
- Other tools: Git, Jira, AWS, Junit, Selenium, Docker, REST APIs, Android Studio, Jenkins, Visual Studio, Linux.

## EXPERIENCE

**Software Engineering Intern**

August 2021 – June 2022

PTC

Pune, Maharashtra

- Designed and executed over 100 comprehensive test cases and created 25+ automation scripts from scratch for a new product deploying Selenium, Java and JavaScript to streamline deployment and testing processes.
- Implemented Jenkins Pipeline to automate build, test, and deployment processes, 30% increase in efficiency, a 20% reduction in human error, and a 25% improvement in overall software quality.
- Contributed to daily scrum meetings to prioritize tasks, review progress, and identify and resolve any obstacles, contributing to efficient and effective delivery of software projects within tight deadlines.

**Web Development Intern**

May 2019 – June 2019

Janata Sahakari Bank Ltd.

Pune, Maharashtra

- Boosted operational knowledge and increased support for diverse office needs by assisting in Front End Web Development and Database Management, improving site performance by 30%.
- Streamlined day-to-day sustaining activities tasks by providing technical support in areas of debugging and bug fixing resolving 50+ issues, ensuring project success by leveraging best practices, Git, and Agile methodologies.

## PROJECTS

**LinkedIn Profile Scraper**

- Built a web scraper using Node.js and Selenium to extract and analyze data from LinkedIn profiles and store it in a CSV file, implemented a React front-end for users to input profile URLs and view parsed information.
- Technology: React, Node.js, Express.js, CSS, JavaScript, HTML, Selenium.

**Malaria Detection Using Convolutional Neural Network**

- Developed a system capable of identifying whether human cell is infected with malaria or not based on contours in cell images of patient utilizing deep learning with python achieving a precision of 99%.
- Technology: Deep Learning, CNN (VGG-19), Python, Tensorflow, matplotlib, Tkinter, Flask.

**Liver Disease Prediction Using Machine Learning**

- Implemented machine learning algorithms, including KNN, Decision Tree, SVM, and Logistic Regression, to predict liver disease in patients.
- Technology: Machine Learning, Python, NumPy, Pandas, Matplotlib, Seaborn, scikit-learn.

**Social Network Analysis of Twitter Users: Crawling Followers and Analyzing the Graph**

- Designed a social network analysis project using Twitter APIs, crawling followers to build a network graph and analyzing its properties, including average distance and diameter, to gain insights into user behavior and connectivity.
- Technology: Data Mining, Python, Twitter API, NetworkX, Matplotlib.

**SubTub - Android application for Sub Shift management**

- Created and maintained an Android application aiming at managing job shifts, allowing real-time schedule updates and ensuring all users get access to most up-to-date information.
- Technology: Android Studio, Kotlin, Firebase, Google Maps API, YouTube API, and Google Calendar API.

## PUBLICATIONS

- Co-authored and published a paper on KrishiMitra, an Android app for farmers, in the International Research Journal of Engineering and Technology (IRJET), Volume 08, Issue 04, Apr 2021, with e-ISSN: 2395-005.